

Amendments to the Claims:

This listing of claims is submitted to replace the prior version claims in the application:

Listing of Claims

1. (Previously Presented) A line driver, comprising:
 - a differential amplifier having an inverting output terminal, a non-inverting output terminal, an inverting input terminal, and a non-inverting input terminal;
 - a first resistor coupled to the inverting input terminal;
 - a second resistor coupled to the non-inverting input terminal; and
 - a resistive feedback network, having a plurality of resistors in symmetric configuration to couple to the inverting output terminal, the non-inverting output terminal, the inverting input terminal, and the non-inverting input terminal to form a feedback network, the resistive feedback network further comprising a third resistor, a fourth resistor, a fifth resistor, a sixth resistor, a first match resistor, and a second match resistor, wherein a first terminal of the third resistor is coupled to the non-inverting output terminal and a first terminal of the first match resistor, a second terminal of the third resistor is coupled to the inverting input terminal and a first terminal of the sixth resistor, a first terminal of the fourth resistor is coupled to the inverting output terminal and a first terminal of the second match resistor, a second terminal of the fourth resistor is coupled to the non-inverting input terminal and a first terminal of the fifth resistor, a second terminal of the fifth resistor is coupled to a second terminal of the first match resistor, and a second terminal of the sixth resistor is coupled to a second terminal of the second match resistor;
 - wherein the resistive feedback network further comprises a seventh resistor and an eighth resistor, wherein a first terminal of the seventh resistor is coupled to the inverting input terminal, a second terminal of the seventh resistor is coupled to the second terminal of the fifth resistor, a first terminal of the eighth resistor is coupled to

the non-inverting input terminal, and a second terminal of the eighth resistor is coupled to the second terminal of the sixth resistor.

2-3. (Canceled)

4. (Previously Presented) The line driver of claim 1, further comprising:
a ninth resistor and a tenth resistor, wherein a first terminal of the ninth resistor is coupled to the non-inverting input terminal, a second terminal of the ninth resistor is coupled to the first terminal of the third resistor, a first terminal of the tenth resistor is coupled to the inverting input terminal, and a second terminal of the tenth resistor is coupled to the first terminal of the fourth resistor.

5. (Currently Amended) A line driver, comprising:
a differential amplifier having an inverting output terminal, a non-inverting output terminal, an inverting input terminal, and a non-inverting input terminal;
a first input resistor coupled to the inverting input terminal;
a second input resistor coupled to the non-inverting input terminal;
a first impedance matching resistor coupled to the inverting output terminal;
a second impedance matching resistor coupled to the non-inverting output terminal; and
a resistive feedback network, having a plurality of resistors in symmetric configuration, wherein the resistive feedback network further includes:
a first resistor unit including a first resistor connected to the first impedance matching resistor and the inverting input terminal and a second resistor connected to the second impedance matching resistor and the non-inverting input terminal;
a second resistor unit including a third resistor connected to the non-inverting output terminal and the inverting input terminal and a fourth resistor connected to the inverting output terminal and the non-inverting input terminal;
a third resistor unit including a fifth resistor connected to the second

impedance matching resistor unit and the inverting input terminal and a sixth resistor connected to the first impedance matching resistor unit and the non-inverting input terminal; and

a fourth resistor unit including a seventh resistor connected to the inverting output terminal and the inverting input terminal and ~~a eighth~~ an eighth resistor connected to the non-inverting output terminal and the non-inverting input terminal.

6. (Currently Amended) A line driver, comprising:

a differential amplifier having an inverting output terminal, a non-inverting output terminal, an inverting input terminal, and a non-inverting input terminal;

a first input resistor coupled to the inverting input terminal;

a second input resistor coupled to the non-inverting input terminal;

a first impedance matching resistor coupled to the inverting output terminal;

a second impedance matching resistor coupled to the non-inverting output terminal; and

a resistive feedback network, having a plurality of resistors in symmetric configuration, wherein the resistive feedback network further includes only three of the following four resistor units comprising:

a first resistor unit including a first resistor connected to the first impedance matching resistor and the inverting input terminal and a second resistor connected to the second impedance matching resistor and the non-inverting input terminal;

a second resistor unit including a third resistor connected to the non-inverting output terminal and a fourth resistor connected to the inverting output terminal and the non-inverting input terminal;

a third resistor unit including a fifth resistor connected to the second impedance matching resistor unit and the inverting input terminal and a sixth resistor connected to the first impedance matching resistor unit and the non-inverting input terminal; and

a fourth resistor unit including a seventh resistor connected to the inverting

output terminal and the inverting input terminal and ~~a eighth~~ an eighth resistor connected to the non-inverting output terminal and the non-inverting input terminal.

7-8. (Canceled)